IN THE CLAIMS

These claims replace the previously filed claims.

- (Previously Presented) A method to operate a digital signal receiver, comprising: detecting occurrence of a symbol degrading event for a received signal, wherein the symbol degrading event occurs after transmission and before reception of the received signal;
 - inserting zero symbols into a received symbol stream to replace symbols degraded by
 the signal degrading event prior to de-interleaving the received signal; and
 error correction decoding the received symbol stream having the inserted zero
 symbols.
- 2. (Original) A method as in claim 1, where error correction decoding comprises operating a Reed-Solomon decoder.
- 3. (Original) A method as in claim 1, where error correction decoding comprises operating a BCH decoder.
- 4. (Original) A method as in claim 1, where error correction decoding comprises operating a Turbo decoder.
- 5. (Original) A method as in claim 1, where inserting occurs in conjunction with operating a BPSK bit metric calculator.

- 6. (Original) A method as in claim 1, where inserting occurs after a Viterbi decoder.
- 7. (Original) A method as in claim 1, where error correction decoding comprises first de-interleaving the received symbol stream having the inserted zero symbols.
- 8. (Previously Presented) A method as in claim 1, where detecting comprises: estimating a signal to noise ratio (SNR) of a block of L contiguous received symbols, where L is an integer greater than or equal to one;

comparing the estimated SNR to a threshold SNR value; and replacing L symbols with L zero symbols when the estimated SNR is less than the threshold SNR.

- 9. (Original) A method as in claim 1, where detecting comprises examining the output of at least one Automatic Gain Control (AGC) circuit.
- 10. (Original) A method as in claim 9, where detecting comprises comparing the output of a slow AGC to a first threshold, comparing the output of a fast AGC to a second threshold, and replacing symbols with zero symbols when either the first or the second threshold is exceeded.
- 11. (Original) A method as in claim 9, where detecting comprises comparing a difference between the output of a slow AGC and the output of a fast AGC to a threshold, and replacing symbols with zero symbols when the difference exceeds the threshold.

- 12. (Original) A method as in claim 9, where detecting comprises comparing a difference between the output of a fast AGC and an average of the output of the fast AGC to a threshold, and replacing symbols with zero symbols when the difference exceeds the threshold.
- 13. (Original) A method as in claim 1, where detecting uses information received from a transmitter that is indicative of a time when a deep fade occurs.
- 14. (Currently Amended) A digital signal receiver, comprising: circuitry for detecting configured to detect the occurrence of a symbol degrading event for a received signal; and for inserting configured to insert zero symbols into a received symbol stream to replace symbols by the symbol degrading event prior to de-interleaving the received signal, wherein the symbol degrading event occurs after transmission and before reception of the received signal; and
 - a decoder for decodingconfigured to decode the received symbol stream having the inserted zero symbols.
- 15. (Original) A digital signal receiver as in claim 14, where the decoder comprises a Reed-Solomon decoder.
- 16. (Original) A digital signal receiver as in claim 14, where the decoder comprises a BCH decoder.

- 17. (Original) A digital signal receiver as in claim 14, where the decoder comprises a Turbo decoder.
- 18. (Original) A digital signal receiver as in claim 14, where said circuit inserts the zero symbols in conjunction with operation of a BPSK bit metric calculator.
- 19. (Original) A digital signal receiver as in claim 14, where said circuit inserts the zero symbols after a Viterbi decoder.
- 20. (Original) A digital signal receiver as in claim 14, further comprising a deinterleaver for de-interleaving the received symbol stream having the inserted zero symbols.
- 21. (Previously Presented) A digital signal receiver as in claim 14, where said circuit comprises:

means for estimating a signal to noise ratio (SNR) of a block of L contiguous received symbols, where L is an integer greater than or equal to one;

means for comparing the estimated SNR to a threshold SNR value; and means for replacing L symbols with L zero symbols when the estimated SNR is less than the threshold SNR.

22. (Original) A digital signal receiver as in claim 14, where said circuit comprises means for examining the output of at least one Automatic Gain Control (AGC) circuit.

- 23. (Original) A digital signal receiver as in claim 22, where said circuit comprises means for comparing the output of a slow AGC to a first threshold, means for comparing the output of a fast AGC to a second threshold, and means for replacing symbols with zero symbols when either the first or the second threshold is exceeded.
- 24. (Original) A digital signal receiver as in claim 22, where said circuit comprises means for comparing a difference between the output of a slow AGC and the output of a fast AGC to a threshold, and means for replacing symbols with zero symbols when the difference exceeds the threshold.
- 25. (Original) A digital signal receiver as in claim 22, where said circuit comprises means for comparing a difference between the output of a fast AGC and an average of the output of the fast AGC to a threshold, and means for replacing symbols with zero symbols when the difference exceeds the threshold.
- 26. (Original) A digital signal receiver as in claim 14, where said circuit uses information received from a transmitter that is indicative of a time when a deep fade occurs.
- 27. (Previously Presented) A method to receive a signal that passes through a channel that is periodically obstructed by a rotating propeller blade, comprising:

 detecting occurrence of a fading condition due to obstruction by the propeller blade;

in response to detecting the occurrence of the fading condition, inserting zero symbols into a received symbol stream at the receiver to replace symbols degraded by the fading condition caused by the obstructing propeller blade;

de-interleaving the received symbol stream having the inserted zero symbols; and

decoding the received symbol stream having the inserted zero symbols.

- 28. (Original) A method as in claim 27, where decoding comprises operating a concatenated forward error correction (FEC) decoder.
- 29. (Original) A method as in claim 27, where decoding comprises operating one of a Reed-Solomon decoder, a BCH decoder, or a Turbo decoder.
- 30. (Previously Presented) A method to operate a satellite to receive a signal that passes through a channel that is periodically obstructed by a rotating propeller blade, comprising:

detecting, on the satellite, occurrence of a fading condition due to obstruction by the propeller blade;

in response to detecting the occurrence of the fading condition,

inserting zero symbols into a received symbol stream at the satellite to replace symbols degraded by the fading condition caused by the obstructing propeller blade;

de-interleaving the received symbol stream having the inserted zero symbols; and error correction decoding the received symbol stream having the inserted zero symbols.

31. (Previously Presented) A satellite, comprising a receiver for receiving a signal that passes through a channel that is periodically obstructed, the receiver comprising circuitry for detecting occurrence of a fading condition due to an obstruction and, in response to

detecting the occurrence of the fading condition, for inserting zero symbols into a received symbol stream to replace symbols corrupted by the fading condition caused by the periodic obstruction; and an error correction decoder for decoding the received symbol stream having the inserted zero symbols.